

AMENDMENTS

In the claims

Please cancel claim 9 and 12 without prejudice.

Please amend the claims as set forth below.

1. (Currently amended) A compressor and driving motor assembly, in which the motor comprises a rotor and a stator assembly, and the compressor comprises a main body supporting first and second interengaged compressor rotors, and wherein ~~which supports~~ a drive shaft extends from one of the first and second compressor rotors and the motor ~~, the rotor being is~~ mounted directly on the drive shaft, ~~in which the drive shaft being supported by the compressor main body to provide~~ acts as a cantilever supporting support of the motor rotor.

2. (Currently amended) An assembly according to claim 1 wherein the portion of the drive shaft providing cantilever ~~without a bearing acting to support of the motor rotor is free of vertical support at a distance from the main body of the compressor.~~

3. (Currently amended) An assembly according to claim 1, in which the motor is a hybrid permanent magnet motor providing an induction mode and a permanent magnet mode.

4. (Original) An assembly according to claim 1, in which the rotor is shaped so as to have a central longitudinal aperture adapted to fit to a corresponding tapered portion of the drive shaft.

5. (Original) An assembly according to claim 1, in which the compressor has a housing, and the stator assembly is connected to the housing of the compressor.

6. (Original) An assembly according to claim 5, in which the stator assembly is directly connected to the housing.

7. (Original) An assembly according to claim 5, in which the stator assembly is connected to the housing by way of an adapter flange.

8. (Original) An assembly according to claim 5, in which the compressor is an air compressor.

9. (Canceled)

10. (Currently amended) A rotary screw air compressor and driving motor assembly, the driving motor being a hybrid permanent magnet motor providing an induction mode and a permanent magnet mode.

11. (Original) An assembly according to claim 10, in which the compressor is an air compressor.

12. (Canceled)

13. (Original) An assembly according to claim 10, in which the motor is a fixed speed motor.

14. (Original) An assembly according to claim 10, in which the motor is a variable speed motor.

15. (Original) An assembly according to claim 10, in which the compressor is of flooded type.

16. (Original) An assembly according to claim 10, in which the compressor is of oil-free type.

17. (Currently amended) An assembly according to claim 10, in which the motor comprises a motor rotor which is mounted directly on to a drive shaft extending from a compressor rotor of the compressor.